

Part 1 General

1.1 REFERENCES

- .1 ASTM C423 – Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method
- .2 ASTM C475 - Joint Compound and Joint Tape for Finishing Gypsum Board
- .3 ASTM C645 - Non-Structural Steel Framing Members
- .4 ASTM C754 - Installation of Steel Framing Members to Receive Screw-Attached Gypsum Board
- .5 ASTM C840 - Application and Finishing of Gypsum Board
- .6 ASTM C1002 - Steel Self-Piercing, Tapping Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs
- .7 ASTM C1396 – Standard Specification for Gypsum Board
- .8 ASTM E90 – Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements
- .9 GA-214 (Gypsum Association) - Recommended Specification: Levels of Gypsum Board Finish
- .10 ULC (Underwriters Laboratory Canada) – Fire Resistance Directory
- .11 WH (Warnock Hersey) – Fire Resistance Directory

1.2 SUBMITTALS

- .1 Section 01 33 00: Submission procedures.
- .2 Product Data: Provide product data on all items specified.
- .3 Shop Drawings: Indicate special details associated with fireproofing and acoustic treatment

1.3 QUALITY ASSURANCE

- .1 Perform Work in accordance with ASTM C840, GA-214.

1.4 REGULATORY REQUIREMENTS

- .1 Conform to applicable code for fire rated assemblies.

Part 2 Products

2.1 FRAMING MATERIALS

- .1 Studs and Tracks: ASTM C645; galvanized sheet steel, C shape with knurled faces.

- .1 0.53 mm (25 Ga.) thick
- .2 Slip joint head track: 0.91 mm thick, galvanized sheet steel, 50 mm deep.
- .3 Framing, furring, and accessories: ASTM C645; types as indicated on Drawings.
- .4 Fasteners: ASTM C1002.
- .5 Anchorage to substrate: Tie wire, nails, screws, and other metal supports of type and size to suit application to rigidly secure materials in place.
- .6 Carrying Channels: 1.52 mm galvanized sheet steel; sizes as indicated on Drawings.
- .7 Hangers: galvanized steel wire, size to suit application, maximum deflection 1/360.

2.2 GYPSUM BOARD MATERIALS

- .1 Acoustic, Fire-Rated (Type "X") Gypsum Board: ASTM C1396 and E90; STC-rated and fire resistive type, ULC or WH rated; maximum available length in place; ends square cut, tapered edges; thickness as indicated on Drawings.

2.3 ACCESSORIES

- .1 Sealant: Non-hardening, non-skinning, for use in conjunction with gypsum board; as specified in Section 079200.
- .2 Corner Beads: 0.46 mm (26 Ga.) thick, galvanized sheet steel, paper faced; tapable.
- .3 Edge Trim: Galvanized steel with "J" type bead; tapable.
- .4 Joint Materials: ASTM C475; reinforcing tape, joint compound, adhesive, and water.
- .5 Fasteners: ASTM C1002; Type S12.
- .6 Control Joints: "V" profile with 6 mm open slot protected with plastic tape to be removed after joint finishing.
- .7 Blocking: refer to Section 062000.
- .8 Acoustic Insulation: to ASTM C423; high density mineral wool, urea-formaldehyde and CFC free

- .1 38 mm (1-1/2 inch) thick
- .2 STC 45
- .3 Reverberation time: 1.25 seconds maximum

Part 3 Execution

3.1 EXAMINATION

- .1 Verify that site conditions are ready to receive work and opening dimensions are as indicated on Drawing and instructed by the manufacturer.

3.2 WALL FRAMING INSTALLATION

- .1 Install studs in accordance with ASTM C754.
- .2 Metal stud spacing: 400 mm on centre, unless otherwise indicated.
- .3 Install slip joint head track where stud walls meet structure. Provide fire rated slip joint head track where fire rated walls meet structure. Allow for 12 mm deflection.
- .4 Door opening framing: Install double studs at door frame jambs.
- .5 Coordinate installation of bucks, anchors, blocking, electrical and mechanical work placed in or behind partition framing.

3.3 GYPSUM BOARD INSTALLATION

- .1 Install gypsum board in accordance with manufacturer's instructions.
- .2 Erect single layer standard gypsum board in most economical direction, with ends and edges occurring over firm bearing.
- .3 Erect single layer fire rated gypsum board vertically with edges and ends occurring over firm bearing.
- .4 Use screws when fastening gypsum board to metal furring or framing.
- .5 Place control joints consistent with lines of building spaces as directed, but not more than 9140 mm on centre.
- .6 Place corner beads at external corners. Use longest practical length. Place edge trim where gypsum board abuts dissimilar materials..

3.4 JOINT TREATMENT

- .1 Finish in accordance with GA-214, Level 4.
- .2 Finish walls above ceilings in accordance with GA-214, Level 2 finish with flush joints. Seal any penetrations.
- .3 Feather coats on to adjoining surfaces so that camber is maximum 0.8 mm.

3.5 TOLERANCES

- .1 Maximum Variation of Finished Gypsum Board Surface from True Flatness: 3 mm in 3 m in any direction.

END OF SECTION

Part 1 General

1.1 REFERENCES

- .1 ASTM C635 – Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings
- .2 CAN/CGSB-92.1 – Sound Absorptive Prefabricated Acoustical Units
- .3 Cisca (Ceilings and Interior Systems Contractors Association) – Ceiling Systems Handbook

1.2 SUBMITTALS

- .1 Section 01 33 00 – Submission procedures.
- .2 Product Data: Provide manufacturer's printed product literature, specifications, and data sheets for all materials specified.
- .3 Shop Drawings: Indicate grid layout and related dimensioning, junctions with other work or ceiling finishes, interrelation of mechanical and electrical items.
- .4 Samples: Provide samples of all materials specified.
- .5 Installation Data: Manufacturer's special instruction requirements, including perimeter conditions requiring special attention.

1.3 MAINTENANCE

- .1 Extra Materials:
 - .1 Provide 5% extra tile of total acoustic area to Owner.
 - .2 Provide 2% extra material of total suspension system to Owner.

1.4 QUALITY ASSURANCE

- .1 Conform to Cisca requirements.

1.5 DELIVERY, STORAGE AND HANDLING

- .1 Protect on site stored or installed absorptive material from moisture damage.
- .2 Separate waste materials for reuse and recycling.

1.6 ENVIRONMENTAL REQUIREMENTS

- .1 Permit wet work to dry before beginning to install.
- .2 Maintain uniform minimum temperature of 15 degrees C and maximum humidity of 40% before and during installation.
- .3 Store materials in work area 48 hours prior to installation.

Part 2 Products

2.1 SUSPENSION SYSTEM

- .1 Intermediate duty system, to ASTM C635; hot dipped galvanized steel; 23.8125 mm (15/16 inch) exposed tee grid system; colour white
- .2 Hanger wire: galvanized soft annealed steel wire
 - .1 3.6 mm diameter for access tile ceilings.
 - .2 2.6 mm diameter for others.
- .3 Hanger inserts.
- .4 Carrying channels: Manufacturer's standard, galvanized steel.
- .5 Accessories: splices, clips, wire ties, retainers and wall moulding flush to complement suspension system components, as required and recommended by manufacturer.

2.2 PANELS

- .1 Acoustic Units (ACT): to CAN/CGSB-92.1:
 - .1 ACT-1: 609.6 x 1219.2 x .25.4 mm (24 x 48 x 1 inch) square lay-in, wet-formed mineral fibre tile with factory-applied latex paint finish; 0.80 NRC, 35 CAC, 170 AC; Class A; 0.87 light reflectance; minimum 50% recycled content.
 - .2 ACT-2: 609.6 x 1219.2 x .25.4 mm (24 x 48 x 1 inch) square lay-in, fibreglass tile with factory-applied latex paint finish; 0.95 NRC, 190 AC; Class A; 0.90 light reflectance; minimum 50% recycled content.

2.3 ACCESSORIES

- .1 Acoustic Sealant for perimeter mouldings (where required), as specified in Section 079200 – Joint Sealants.
- .2 Touch-up Paint: Type and colour to match acoustic and grid units.

Part 3 Execution

3.1 EXAMINATION

- .1 Do not install acoustical panels and tiles until work above ceiling has been inspected by Departmental Representative.
- .2 Verify that layout of hangers will not interfere with other work.

3.2 INSTALLATION – SUSPENSION SYSTEM

- .1 Install suspension system to manufacturer's instructions and as supplemented in this section.
- .2 Install system capable of supporting imposed loads to a deflection of 1/240 maximum.

- .3 Locate system on room axis according to Reflected Ceiling Plan Drawings.
- .4 Install after major above ceiling work is complete. Coordinate the location of hangers with other work.
- .5 Hang suspension system independent of walls, columns, ducts, pipes, and conduit. Where carrying members are spliced, avoid visible displacement of face plane of adjacent members.
- .6 Where ducts or other equipment prevent the regular spacing of hangers, reinforce the nearest affected hangers and related carrying channels to span the extra distance.
- .7 Do not support components on main runners or cross runners if weight causes total dead load to exceed deflection capability. Support fixture loads by supplementary hangers located within 150 mm of each corner; or support components independently.
- .8 Do not eccentrically load system or produce rotation of runners.
- .9 Form expansion joints to accommodate plus or minus 25 mm movement. Maintain visual closure.

3.3 INSTALLATION – PANELS

- .1 Install to manufacturer's instructions.
- .2 Fit panels in place, free from damaged edges or other defects detrimental to appearance and function.
- .3 Install panels after above ceiling work is complete.
- .4 Install panels level in uniform plane, and free from twist, warp, and dents.
- .5 Where bullnose concrete block corners or round obstructions occur, provide preformed closures to match perimeter moulding.

3.4 ERECTION TOLERANCES

- .1 Maximum Variation from flat and level surface: 3 mm in 3 m.
- .2 Maximum Variation from plumb of grid members caused by eccentric loads: 2 degrees.

END OF SECTION

Part 1 General

1.1 REFERENCES

- .1 ASTM F1344 – Rubber Floor Tile
- .2 ASTM F1861 – Resilient Wall Base
- .3 CAN/ULC S102.2 - Surface Burning Characteristics of Flooring, Floor Covering and Miscellaneous Materials and Assemblies

1.2 SUBMITTALS

- .1 Section 01 33 00: Submission procedures.
- .2 Product Data: Provide data on specified products, describing physical and performance characteristics; sizes, patterns and colours available.
- .3 Shop Drawings: Indicating patterns, borders.
- .4 Installation Data: Manufacturer's special installation requirements including special procedures, perimeter conditions requiring special attention.
- .5 Samples: Submit two (2) samples, 200 x 200 mm in size, illustrating colour and pattern for each floor material specified.

1.3 CLOSEOUT SUBMITTALS AND MAINTENANCE

- .1 Operation and Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning, stripping, and re-waxing.
- .2 Extra Stock Materials: Provide 10 sq m of each colour pattern, dye lot, and type flooring. Identify each roll and store where directed. Materials to be in one piece and same production run as installed materials.

1.4 REGULATORY REQUIREMENTS

- .1 Conform to applicable code for flame/smoke rating requirements in accordance with CAN/ULC S102.2.

1.5 DELIVERY, STORAGE, AND PROTECTION

- .1 Section 01 61 00: Transport, handle, store, and protect products.

1.6 ENVIRONMENTAL REQUIREMENTS

- .1 Store materials for three days prior to installation in area of installation to achieve temperature stability.

- .2 Maintain ambient temperature required by adhesive manufacturer three days prior to, during, and 24 hours after installation of materials.

Part 2 Products

2.1 TILE

- .1 To ASTM F1344, Class 1-B; homogeneous, 100% synthetic rubber; 3.17 mm (0.125 inch) thick; 609.6 x 609.6 mm (24 x 24 inches), hammered finish; colour as selected by Departmental Representative from manufacturer's standard colour range, range to include burgundy and grey.

2.2 BASE

- .1 To ASTM F1861, Type TP, Group 1; standard toe; 3.17 mm (0.125 inch) thick; 101.6 mm (4 inch) height; inside and outside corners with 101.6 mm (4 inch) returns; colour as selected by Departmental Representative from manufacturer's standard colour range, range to include burgundy and grey.

2.3 ACCESSORIES

- .1 Transition Strips: homogeneous composition of polyvinyl chloride (PVC)
 - .1 Type 1 (rubber tile to existing resilient): 2 mm (0.08 inch) to 2 mm (0.08 inch), 63.5 mm (2-1/2 inches) cap with 44.5 mm (1-3/4 inch) wide support base; wheel traffic design (no slope)
 - .2 Type 2 (rubber tile to existing concrete): 1.5875 mm (1/16 inch) through 3.175 mm (1/8 inch) material to floor, 41.275 mm (1-5/8 inch) span.
- .2 Subfloor Filler: type recommended by flooring manufacturer.
- .3 Primers and Adhesives: Waterproof; types recommended by flooring manufacturer.

Part 3 Execution

3.1 EXAMINATION

- .1 Verify floor and lower wall surfaces are free of substances that may impair adhesion of new adhesive and finish materials.

3.2 PREPARATION

- .1 Remove sub-floor ridges and bumps. Fill minor or local low spots, cracks, joints, holes, and other defects with sub-floor filler to achieve smooth, flat, hard surface.
- .2 Prohibit traffic until filler is cured.
- .3 Vacuum clean substrate.
- .4 Apply primer to surfaces.

3.3 INSTALLATION - TILE FLOORING

- .1 Install in accordance with manufacturer's instructions.
- .2 Mix tile from container to ensure shade variations are consistent when tile is placed.
- .3 Spread only enough adhesive to permit installation of materials before initial set.
- .4 Set flooring in place, press with heavy roller to attain full adhesion.
- .5 Lay flooring with joints and seams parallel to building lines to produce symmetrical tile pattern.
- .6 Install tile to monolithic pattern. Allow minimum 1/2 full size tile width at room or area perimeter.
- .7 Terminate flooring at centerline of door openings where adjacent floor finish is dissimilar.
- .8 Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce tight joints.

3.4 INSTALLATION – FLOOR BASE

- .1 Fit joints tight and vertical. Maintain minimum measurement of 10 inches (250 mm) between joints.
- .2 Mitre internal corners. At external corners, 'V' cut back of base strip to 2/3 of its thickness and fold.
- .3 Install base on solid backing. Bond tight to wall and floor surfaces.
- .4 Scribe and fit to door frames and other interruptions.

3.5 CLEANING

- .1 Remove access adhesive from floor, base, and wall surfaces without damage.
- .2 Clean, seal, and wax floor and base surfaces in accordance with manufacturer's written instructions.

3.6 PROTECTION OF FINISHED WORK

- .1 Prohibit traffic on floor finish for 48 hours after installation.

END OF SECTION

Part 1 General

1.1 REFERENCES

- .1 ASTM C423 - Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method
- .2 ASTM E84 - Surface Burning Characteristics of Building Materials
- .3 ASTM E90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements
- .4 ASTM E413 – Classification for Rating Sound Insulation

1.2 PERFORMANCE REQUIREMENTS

- .1 Sound Absorption Coefficient (SAC): Tested to ASTM C423
 - .1 NRC: 0.85 minimum
- .2 Surface Burning: To ASTM E84:
 - .1 Flame spread: 5 or less
 - .2 Smoke developed: 5 or less

1.3 SUBMITTALS FOR REVIEW

- .1 Section 01 33 00: Submission procedures.
- .2 Product Data Manufacturer's descriptive literature for panel system, including component item data, physical sizes, clearances required.
- .3 Shop Drawings: Indicate general room layout showing acoustic panel locations and orientation, reflective and absorptive, required construction and anchorage details, rough openings affected, size and tolerances of openings.
- .4 Samples: Submit two (2) samples, minimum 150 x 150 mm (6 x 6 inches) in size.
- .5 Manufacturer's Certificate: Certify that products meet or exceed specified performance requirements.
 - .1 Certify system acoustical and fire resistance performance.
 - .2 Certify that installers have been trained and are qualified to install the components.
- .6 Test Reports:
 - .1 Submit substantiating engineering data, test results of previous tests by independent laboratory which purport to meet performance criteria, and other supportive data.
 - .2 Submit tests reports from a testing laboratory indicating that the components have passed all noted fire resistance requirements and acoustical requirements.

1.4 REGULATORY REQUIREMENTS

- .1 Conform to applicable code for fire rated panel construction and combustibility requirements for materials.

Part 2 Products

2.1 COMPONENTS

- .1 Panel: 50.8 mm (2 inches) thick; asbestos, urea-formaldehyde, and CFC free
 - .1 Board: composite wood fibre cement matrix comprised of dimensionally stable, unfinished cement coated wood fibres
 - .2 Fill: high density mineral wool, density of 56.07 kg/cm (2.5 lb/cf)
 - .3 Finish: factory-finish, colour as selected by Departmental Representative from standard colour range

2.2 ACCESSORIES

- .1 Fasteners: as recommended by panel manufacturer and required for complete installation.
- .2 Accessories: as required for complete installation.

Part 3 Execution

3.1 EXAMINATION

- .1 Verify that adjacent materials and surfaces are dry, in a dust free environment, free of obstructions, and ready to receive system installation.

3.2 INSTALLATION

- .1 Install panels to manufacturer's instructions.
- .2 Install and orient panels as identified on approved shop drawings.
- .3 Use screws to attach frames to wall or partition substrate.
- .4 Install acoustic panels to pattern determined by shop drawings. Orient surface facings of panels to optimize acoustic characteristics.
- .5 Place and position panels plumb and level.

3.3 CLEANING

- .1 Clean finish surfaces and accessories as recommended by panel manufacturer.

END OF SECTION

Part 1 General

1.1 REFERENCES

- .1 MPI (Master Painters Institute) – Architectural Painting Specifications Manual, current edition.

1.2 SUBMITTALS

- .1 Section 01 33 00: Submission procedures.
- .2 Product Data: Provide data on products, including manufacturer's special installation requirements indicating special surface preparation procedures, substrate conditions requiring special attention, VOC content (as outlined in Section 014711).
- .3 Samples: Submit samples in duplicate, 300 x 300 mm, of each colour selected.

1.3 MAINTENANCE

- .1 Extra Stock Materials:
 - .1 Provide 10 percent extra of each colour, type, and surface texture to Owner.
 - .2 Label each container with colour, type, texture, room locations, in addition to the manufacturer's label.

1.4 QUALITY ASSURANCE

- .1 Conform to MPI - Specification Manual.
- .2 VOC limits as outlined in Section 014711.

1.5 DELIVERY, STORAGE, AND PROTECTION

- .1 Deliver products to site in sealed and labeled containers; inspect to verify acceptability.
- .2 Container label to include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, colour designation, and written instructions for mixing and reducing.
- .3 Store paint materials at minimum ambient temperature of 7 degrees C and a maximum of 32 degrees C, in ventilated area, and as required by manufacturer's written instructions.

1.6 ENVIRONMENTAL REQUIREMENTS

- .1 Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.
- .2 Minimum Application Temperatures for Latex Paints: 7 degrees C for interiors, unless required otherwise by manufacturer's written instructions.
- .3 Provide lighting level of 860 lx measured mid-height at substrate surface.

Part 2 Products

2.1 MANUFACTURERS

- .1 Only materials listed in MPI Approved Product List are acceptable. All such material shall be from a single manufacture for each system specified and shall be of manufacturer's **premium quality** line.

2.2 MATERIALS

- .1 Coatings: Ready mixed, except field catalyzed coatings. Process pigments to a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating; good flow and brushing properties; capable of drying or curing free of streaks or sags.
- .2 Accessory Materials: other materials not specifically indicated but required to achieve the finishes specified, of commercial quality.
- .3 Patching Materials: Latex filler.
- .4 Fastener Head Cover Materials: Latex filler.

2.3 FINISHES

- .1 Refer to Schedule at end of section for surface finishes.

Part 3 Execution

3.1 EXAMINATION

- .1 Verify that surfaces are ready to receive work as instructed by the product manufacturer.
- .2 Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application.
- .3 Test shop applied primer for compatibility with subsequent cover materials.
- .4 Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below the following maximums:
 - .1 Plaster and Gypsum Wallboard: 12 percent.
 - .2 Masonry, Concrete, and Concrete Unit Masonry: 12 percent.

3.2 PREPARATION

- .1 Remove electrical plates, hardware, light fixture trim, escutcheons, and fittings prior to preparing surfaces or finishing.
- .2 Correct defects and clean surfaces which affect work of this section. Remove existing coatings that exhibit loose surface defects.
- .3 Seal with shellac and seal marks which may bleed through surface finishes.

- .4 Impervious Surfaces: Remove mildew by scrubbing with solution of tri-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.
- .5 Gypsum Board Surfaces: Fill minor defects with filler compound. Spot prime defects after repair.
- .6 Uncoated Steel and Iron Surfaces (Unprimed): Remove grease, mill scale, weld splatter, dirt, and rust. Where heavy coatings of scale are evident, remove by hand, power tool, wire brushing or sandblasting; clean by washing with solvent. Apply a treatment of phosphoric acid solution, ensuring weld joints, bolts, and nuts are similarly cleaned. Spot prime paint after repairs.
 - .1 Doors and Frames: Seal top and bottom edges with primer.
- .7 Concrete and Unit Masonry Surfaces Scheduled to Receive Paint Finish: Remove dirt, loose mortar, scale, salt or alkali powder, and other foreign matter. Remove oil and grease with a solution of tri-sodium phosphate; rinse well and allow to dry. Remove stains caused by weathering of corroding metals with a solution of sodium metasilicate after thoroughly wetting with water. Allow to dry.

3.3 APPLICATION

- .1 Apply products to manufacturer instructions.
- .2 Do not apply finishes to surfaces that are not dry.
- .3 Apply each coat to uniform finish.
- .4 Apply each coat of paint slightly darker than preceding coat unless otherwise approved.
- .5 Sand metal lightly between coats to achieve required finish.
- .6 Vacuum clean surfaces free of loose particles. Use tack cloth just prior to applying next coat.
- .7 Allow applied coat to dry before next coat is applied.

3.4 FINISHING MECHANICAL AND ELECTRICAL EQUIPMENT

- .1 Refer to Mechanical and Electrical for schedule of colour coding and identification banding of equipment, duct work, piping, and conduit.
- .2 Paint both sides and edges of plywood backboards for electrical and telephone equipment before installing equipment.
- .3 Keep sprinkler heads free of paint.
- .4 Paint exposed electrical conduit, pipes, ductwork, hangers, and other mechanical and electrical equipment occurring in finished areas, as well as inside cupboards and cabinet work. Colour and texture to match adjacent surfaces, except as noted otherwise.
- .5 Paint interior surfaces of air ducts, and convector and baseboard heating cabinets that are visible through grilles and louvers with one coat of flat black paint, to visible surfaces.

Paint dampers exposed behind louvers, grilles, and convector and baseboard cabinets to match face panels.

- .6 Paint shop primed equipment. Paint shop prefinished items occurring at interior areas.
- .7 Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.
- .8 Colour code equipment, piping, conduit, and exposed duct work in accordance with mechanical specification. Colour banding and identification with flow arrows names and numbering will be performed by Mechanical. Piping and ductwork not required to be coded shall be painted in accordance with architectural colour schedule.
- .9 Paint both sides and edges of plywood backboards for electrical and telephone equipment before installing equipment.
- .10 Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

3.5 CLEANING

- .1 Collect waste material which may constitute a fire hazard, place in closed metal containers and remove daily from site.

3.6 SCHEDULE - INTERIOR SURFACES

- .1 Steel - Unprimed:
 - .1 One coat of waterborne alkyd primer
 - .2 Two coats of waterborne alkyd, Gloss Level 4
- .2 Gypsum Board:
 - .1 One coat of latex primer sealer.
 - .2 Finish Coats
 - .1 For typical colours: Two coats of latex acrylic.
 - .2 For dark or intense colours: Three coats of latex acrylic.
 - .3 Walls: Gloss Level 3, unless noted otherwise
 - .4 Ceilings: Gloss Level 3, unless noted otherwise
- .3 Concrete, Concrete Block:
 - .1 One coat block filler
 - .2 One coat latex primer sealer
 - .3 Finish Coats
 - .1 For typical colours: Two coats of acrylic latex
 - .2 For dark or intense colours: Three coats of acrylic latex
 - .3 Walls: Gloss Level 3, unless noted otherwise
 - .4 Ceilings: Gloss Level 3, unless noted otherwise

- .4 Concrete Floor (Line Paint)
 - .1 Primer/sealer as recommended by floor line paint manufacturer
 - .2 Finish Coats: two-component, heavy duty, catalyzed water-based epoxy
 - .1 Coats: as recommended by floor line paint manufacturer

END OF SECTION